
ECONOMIC ENDEAVORS

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The Haverford College Economics Department Newsletter

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Anne Preston~

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Greetings from the Haverford Economics Department!

The Economics department continues to thrive! This year we hired Carola Conces Binder to develop our macroeconomics offerings, starting in fall 2015. She recently defended her PhD dissertation at UC Berkeley and is interested in using multi-disciplinary techniques to develop new ways to measure public perceptions, expectations, and uncertainty as they relate to monetary policy and the macro-economy. Carola also writes a popular economics blog, <http://carolabinder.blogspot.com/>, which I recommend to all economics alums. Steven Smith finished his first year of a three year post graduate fellowship in environmental economics. He taught two environmental electives in the department this year, and we anticipate that the seeds have been sown for some interesting environmental theses in the next couple of years. Tim Lambie-Hanson just completed his first year as a full-time visitor and will be continuing in that role next year. Dave Owens was granted tenure so we hope he will be at Haverford for the long run, and Shannon Mudd signed a long term contract to run the MI3 program while being a full time faculty member in the department. Next year Vladimir Kontorovich and Richard Ball will be on much deserved and anticipated sabbaticals. As a result we have hired Matthew Incantalupo, a PhD candidate in Political Science (he says he will be a recipient by September) at Princeton to teach our statistics in economics courses and a course on Inequality and Public Policy. In addition the number of majors is climbing steadily. We will have 37 graduating economics major next spring (up from 28 this spring) and 42 in spring 2017.

All the youthful faculty have generated positive externalities: BABIES! Tim and his wife Lauren welcomed a little girl, Eleanor, this spring, and she joins her 3 year old brother Owen in their growing family. Steven and his wife Laura often bring their nine month old son Kepler to visit the department, and we are looking forward to meeting Carola's 8 month old daughter Ruby later this summer. With Giri's marriage this October and Dave's positive tenure decision, who knows what kind of baby announcements will appear in the 2016 newsletter. No pressure!

I would be remiss if I did not point out that the positive externalities extend to research energy and enthusiasm as well. Giri Parameswaran has continued his organization of the seminar series with 4 seminar meetings each semester, and he has been instrumental in getting the students to attend. Giri has also started a more informal in-house series where we can talk informally about new research ideas. Dave Owens continues to preside over BEEMA (Behavioral and Experimental Economists in the Mid-Atlantic) which hosted its second annual conference at Haverford last June and he plans the third conference in late September. Haverford is really starting to get on the map as a "happening" economics research college.

On October 1 we hosted our Annual Economics Alumni Forum where Bill Comanor '59, our founder of the Comanor Lecture series and Professor at both UC Santa Barbara and UCLA, and Howard Shelanski '86, Administrator of the Office of Information and Regulatory Affairs in the Obama White House, spoke on network neutrality and the economic consequences of the proposed merger between Comcast and Time Warner. Andrew Bostick '12 who works at Aberdeen Asset Management assessing the creditworthiness of technology, media, telecom, and utility companies was the moderator. Their spirited discussion was helpful for students in thinking about public policy related to the internet and, in retrospect, after the events on these fronts in the last couple of months, their analysis and opinions were quite prescient. We will be hosting our 2015 Economics

Alumni Forum on October 21 or 22 (to be determined) and the topic will be “The Economics of Immigration Reform.” Tim Guinnane '81, Philip Golden Bartlett Professor of Economic History at Yale University, has agreed to speak. We are looking for at least one more speaker; if you have expertise in immigration or related areas and you are available, please be in touch.

Nobel Laureate Alvin Roth delivered the sixth annual William Comanor '59 lecture on March 23rd. Al, currently the Craig and Susan McCaw Professor of Economics at Stanford University, shared the 2012 Nobel Memorial Prize in Economics, "*for the theory of stable allocations and the practice of market design.*" His public talk titled *The Economist as Engineer: The New Economics of Matching and Market Design* gave community members an idea of the practical applications of market design in markets which, for a variety of reasons, cannot arise on their own. His work to create a market for kidney donations is an example of the enormous social benefits that can arise when these market failures are solved. Joseph Stiglitz, Professor at Columbia University, co-recipient of the Nobel Memorial Prize in Economics in 2001 "*for laying the foundations for the theory of markets with asymmetric information*", and most recently author of "The Great Divide," has tentatively agreed to deliver the seventh annual William Comanor '59 lecture in spring 2016.

Again we are saying farewell to 28 incredibly talented senior economics majors. They have been a great class and their theses were superb. Seven of them presented their work to their colleagues, professors and alums at the first Annual Public Policy Forum in March, a feat of bravery since they were still in the midst of estimation and analysis. Please enjoy reading about their theses on pages 14-18. Also I remind you that we spotlight seniors throughout the academic year on our website, and you can peruse these spotlights on the Economics home page. Of the 28 graduating seniors, 20 have reported back about their plans for next year. Of those 20, 18 have jobs, and 1 is going to graduate school for an MSA/MBA! Our on-going and successful (!) attempts to build a strong economics community make it ever harder to say good bye, but hopefully they also make it harder for our students to stay away. During our final senior dinner we were given the supreme compliment. A group of students told the faculty that our efforts to bring them together paid off: they had made friends with and learned from students whom they would never have interacted without our efforts. As always we will look forward to hearing about their (as well as all our alumni(ae)'s) engagement with the world in person, by email, and in future editions of *Economic Endeavors*.

*Anne Preston, Professor and Chair
Haverford Economics*

Alumni News!

John Flint '55 For what it's worth, I am retiring for the second time at the end of May. My "temporary" unretirement lasted almost 13 years not the least reason for which is that commercial real estate appraisal is so interesting and challenging.

Perk Pedrick '58 Retirement living is fun but doesn't change much from year to year. We are going "across the pond" in August to visit cousins in Wales and take the Charles Rennie MacIntosh tour in Scotland.

William Comanor '59 This past November marked the 50th anniversary of my first published paper on Pharmaceutical Economics, when there really was no field of economics by that name. It appeared in *Economica*, published by the London School of Economics, in November 1964. To mark that occasion, a special issue of the *International Journal of the Economics of Business* will appear later this year which is devoted to Pharmaceutical Economics and will include invited papers in that field.

George Parker '60 In December, 2014, I retired after 7 years as Chairman of the Board of iShares mutual funds. iShares grew to over \$ Trillion in assets under management and is perhaps the biggest success story in the history of mutual funds throughout the world. No other mutual fund complex grew from a standing start in 1990 to \$1 Trillion in such a period. It is a testimony to the innovation that the Electronic Traded Funds (ETF's) represented in the financial services business. Passive investing is here to stay and ETF's are simply the best way to do it. I continue to teach Private Equity and Private Wealth Management in the MBA Program at Stanford. Of course I always wish more Haverford graduates would pursue MBA degrees and that more would apply to Stanford. It truly has been a wonderful career for me. Looking forward to my 55th Haverford reunion in May.

Art Wright '60 If only I had some stunning news to report! I've been retired from the University of Connecticut economics department for nearly 14 years now. I still attend the odd department function (e.g., retirement party for an ex-colleague) or get to a seminar (often, by a graduate student). We continue to take advantage of the University's public life, so to speak, and I did drive into Hartford earlier this month for the parade in honor of the women's basketball team's 10th national championship. I continue to work as a consultant, primarily as an expert witness in employment discrimination and death/injury cases. I worked out a simple algorithm in Excel for solving the problem of how much total state and federal taxes will be levied on court awards in employment-discrimination cases. At its core, the problem is an infinite convergent geometric series; my algorithm gives an acceptable approximation of the solution (9th grade algebra!). Last summer I backpacked for 8 days in the Tetons in northwestern WY and eastern Idaho. Water does boil really fast at 10,500'. And high peaks do generate Transcendental golden shadows, as Albert Beirstadt insisted (see, for instance, "Valley of the Yosemite, 1864"). A wet winter and spring had spawned a profusion of wildflowers that grew to man-height in places. After the Tetons, the White Mountains are going to seem on a far smaller scale, though still beautiful and rugged. I plan to attend my 55th reunion at the end of May. With any luck I'll be able to display a video loop comprised of the best of my photos from the Tetons.

Bob Kelly '61 No news. Same old, same old. Just getting older!

Richard Adelman '65 I followed my Economics major at Haverford with an MBA (accounting) at Rutgers, three years as a Procurement (purchasing) Officer with the USAF and five years with a Big Eight CPA firm. I parked as Director of Accounting Policies and Procedures or the equivalent title for PepsiCo, ASARCO, Lever Bros. and other corporates.

Emil Bonaduce '71 I merged my company, Vision Database Systems, with Cardsmith about 2 years ago. Well, now, both of our companies are going to be part of Blackboard. They are an educational software company trying to become #1 in the cashless ID card market for colleges, K12, and other institutions. Nothing changes, we operate as a subsidiary, and I get to keep doing what I enjoy doing. And now, we will become number 1. Incidentally, my partner and boss, Jay Summerall, is the son of Pat Summerall, the sportscaster you probably remember from Olympics - thrill of victory and agony of defeat- days. He doesn't like to spread that around but he remains a Giants fan. His father Pat was best friends with Mickey Mantle.

<http://cr80news.com/2014/08/06/blackboard-acquires-cardsmith/?tag=email>

Of all the sleepless nights at Haverford wondering what I was going to be, entrepreneur never entered my mind. But the liberal arts BA degree in general, and the Econ degree in particular really prepared me, I'll tell you that.

Roy Goodman '71 I have an undergraduate degree in economics because it was one of the very few subjects that I found interesting and that made sense to me. The "business end" of my education is medicine, but that shouldn't be too surprising; one of my Haverford classmates (Rich Merkler '71) majored in music at Haverford and was also a medical school classmate at NYU. Any remaining connections I have to economics are pretty tenuous by now. I was the first person I knew other than econ professors and students to use the word "fungible," but my wife (BMC '74, biology major) has since adopted it. (At least within my family I may still have a monopoly on "marginal.") A more interesting highlight was meeting Thomas Sowell when he came to Haverford to interview for a faculty position and he gave a lecture for the econ majors. Nowadays I think of him as a very solid writer and someone with whom I usually agree; live, speaking informally, he was one of the best lecturers I ever heard. Oh, and about fifteen or twenty years ago I had occasion to write to him about something else, and I mentioned Haverford's ill-considered decision to not hire him. He remembered it, and he was still angry. Here's another tenuous connection: my sister (BMC '74, astronomy/physics) had as one of her high school buddies the daughter of Victor Fuchs. I'm now retired much earlier than I would have liked thanks mainly to health problems. The good news is that it happened before "cost containment" could destroy the practice of medicine in the USA. My kids are doing fine so far, but I'm not optimistic about the future. Many of the econ majors are going to be around to watch that future unfold. I wish them and you good luck, and I hope I'm wrong.

Alumni News!

Howard Prossnitz '73 I published a novel *The Ponzi Scheme* which can be purchased on amazon.com. Reviews have been good. I need an agent and producer for the film.

Lorenzo Villalon '73 I am pleased to report that I have relocated to Northern California, about an hour north of San Francisco. My wife and I are enjoying the Bay Area and have benefitted from the active local alumni club; we recently attended a very interesting lecture by Professor Koltun-Fromm and have also participated in Haverford-sponsored events at the San Francisco Opera and the Asian Museum. I continue as Chief Financial Officer of CMSG, the copper mining company in Chile by traveling to Chile on a quarterly basis to attend Board meetings and keep up my contact with local banks. I am also doing work with international banks and investors to search for longer term financing. And I continue with my stock market investment activities. On the family front, our oldest son is working for a hedge fund in Greenwich, CT and his wife is expecting their second child; we look forward to meeting our granddaughter in May. Our second son finished his residence training in Emergency Medicine at UCSF and is now working in Seattle; he will be getting married this Fall and we look forward to welcoming our second daughter-in-law to the family soon. And our third son graduated from law school and is now practicing in Seoul, where he is perfecting his command of Korean, to complement his Mandarin skills; he is happily pursuing his interest in law and Asian culture.

Randall K. (Randy) Filer '74 remains a Professor of Economics at Hunter College and the CUNY Graduate Center. In a parallel life he is also a professor at CERGE-Ei in Prague and President of the CERGE-EI Foundation which supports economic education and literacy in the post-communist countries of Central and Eastern Europe and the former Soviet Union. At the Foundation he runs a program that provided financial and academic support to 117 young Teaching Fellows serving approximate 16,000 students enrolled in 259 courses at 58 universities in 20 former communist countries during the current academic year. For more information, please visit <http://www.cerge-ei.cz/teaching-fellows>. Fords who spent time discussing the Soviet System in Ho Hunter's living room on Featherbed Lane will appreciate the importance of this project and are welcome to join us.

David Spitulnik '76 has joined Altura Consulting Group as Managing Director. In this leadership role, he will conduct firm business development activities, work with clients on projects involving strategy and organization development, and continue to build Altura's team of world-class consultants. David has deep experience both as an executive and a consultant in large and mid-market companies across a variety of industries. His career includes VP of Business Development at Motorola, Managing Director of Strategic Services at Blackman Kallick, consultant at Booz Allen & Hamilton, and President of Maine Plastics. David works with organizations to develop and implement strategies that drive transformation, growth, diversification, operating efficiency, and value creation. He is a catalyst for change with the ability to drive ideas from concept through successful execution. David is a leader and member of motivated, high performance teams who builds strong relationships with clients, business leaders and team members.

John Kaestle '77 I am currently CEO of Markel Corporation in Plymouth Mtg. We make extruded Teflon products for the global automotive industry- 75 pct of revenue is for export to Europe, Mexico, China, India, and Brazil. I have three sons, two of which are getting married this year! We live in Seattle but are planning to relocate back to the Main Line this summer. I still keep in touch with my classmates from 1977- Jon Orwitz, David Stubbs, Kevin Kelly, Jon Darrow, Mark Shaiken, and others. I visited Haverford campus several months ago and was amazed at all the changes!

Michael Leeds '77 I will be on leave from Temple University this coming year and will be on the road quite a bit. I will spend the summer teaching at Temple University Japan and Meiji University and doing research with my wife, Eva (an economist at Moravian College) in Tokyo. I will then spend the fall as a visiting professor in the Sport Management Department at the University of Michigan. Our plans for the spring are still unsettled, but Eva and I hope to spend Spring 2016 at IZA, a labor research institute in Bonn, Germany.

Eric W. Sedlak '80 advised Ajinomoto on the acquisition of U.S. ethnic foods maker Windsor Foods as well as on a number of renewable and traditional energy projects. He spoke at Select USA programs in Tokyo and Nagoya, to promote Japanese investment in the U.S. He continues at Jones Day in Tokyo and was recently elected Vice President of the American Chamber of Commerce in Japan, where he Chairs both the Internal Affairs and the External Affairs Advisory Councils, overseeing ACCJ's active advocacy program (ACCJ Journal article on advocacy program, to be published May 1) <http://journal.accj.or.jp/advocacy-legal-issues/> See www.junkosgraphics.com, <http://journal.accj.or.jp/2015-advocacy-vision/> and my wife's new gallery Yellow Toes on Facebook and soon to be www.yellowtoes.com.

Mark Sadoff '82 I can announce that in July last year I was sworn in to the Paris (France) Bar and formed my own firm, MJS Legal, specializing in working with companies that are operating outside their home country. I can be reached at Phone: [+33 6 95 62 45 60](tel:+33695624560) or e-mail: msadoff@mjs-legal.com. No website yet but active on LinkedIn (including the HC Lawyers Network).

Timothy Taylor '82 is still working as Managing Editor of the Journal of Economic Perspectives, the journal I helped to start back in 1986. A few years back, the American Economic Association made the JEP freely available online at <http://e-jep.org>. Tim has also been blogging for the last four years at conversableeconomist.blogspot.com, mainly about the array of economic facts, articles, and studies that cross his desk. He lives near Minneapolis with his wife Kimberley Hollingsworth Taylor ('85), and their three teenagers, two of whom are taking drivers' ed this summer.

Alumni News!

Keith Belton '83 I've recently relocated - along with fiancée Geanne Perlman Rosenberg (BMC '82) -- to Portland, Maine where I am in charge of product strategy and product management for IDEXX (www.idexx.com). IDEXX Laboratories is the leading provider of veterinary diagnostics. I recently left Nuance Communications where I was the general manager of the Dragon Medical business unit for 8 years. I'm having dinner with some old Haverford friends this week to celebrate Geanne and my upcoming marriage. Participants include fellow Econ (high honors!) major Hugh Gelch '83. Hugh has had a hugely successful career as a real estate investor in the Boston area.

Heidi Olson '83 After years on Wall Street I changed careers. I now work at a middle school for high functioning, learning disabled children. I teach math, financial literacy, money management. The older kids participate in a SIFMA mock stock trading competition. The kids learn and apply micro and macro economic ideas to news and their everyday life. The parents are amazed when they describe the economic impact of lower gas prices on the consumer and oil dependent industries.

Howard James Sacks '85 started a new position at Morgan Stanley as a Senior Vice-President in January, 2014.

Lee (Leslie) Smith '85 continues to work in marketing at Southern Methodist University in Dallas. The Meadows School is a performing arts and communications school that hosts over 150 events a year that run the gamut from dance to theatre to music including symphony, jazz, opera and more. On the personal front, she's gone back to school to get a 2nd BA (at SMU), this time in Journalism, to remain tech-savvy in an ever-increasing "technologically dependent" world. It was an honor for her to be inducted into the Alpha Chi Honor Society this year. Lee's husband and daughter are thriving as are the myriad of dogs, and yes a rabbit, that are part of the family! All my best to the Ford econ majors! Here is a link to my e-portfolio with some of my journalism work: <http://leegleiser.wordpress.com/>

Larry Stein '85 recently joined a new startup, Alteryx, which provides Data Blending and Advanced Analytics. As a data driven marketer for most of my career, it is interesting to be so close to a tool that enables line of business professionals to develop insights into their data in hours. We have a free trial for those who are interested - www.alteryx.com.

Han-Hsien Tuan '85 Presently, I am an attorney and managing partner of my own law firm, Tuan Olona, LLP. The firm is a general practice law firm, but I specialize in structured finance, real estate and charities and foundations. I am married to Dolly Wen, and I have two daughters, ages 16 and 19, with the older one, a freshman at Haverford. We live in Short Hills, NJ, in a house built in 1730, with extensive renovations since then, like electricity and indoor plumbing. In my spare time, which isn't much, I enjoy cooking, fantasy football and travelling.

Alex Russin '86 I live in Amman, Jordan with wife Stephanie and three children (Anna 11, Harry 9, and Jack 7). I am Resident Country Director for the Millennium Challenge Corporation (MCC) in Jordan where I'm responsible for overseeing the development and implementation of the \$275 million MCC-Jordan Compact. I have over 20 years of infrastructure development and project-finance experience in Europe, South East Asia, Latin America, and the United States. I've conducted seminars and workshops on infrastructure development and government privatizations. I'm multilingual, a native Spanish speaker and proficient in French. I received my M.B.A., Finance, from University of Chicago, Graduate School of Business. Links: <http://www.mca-jordan.gov.jo/> and <https://www.mcc.gov/>

Michael Barnes '90 I'm looking forward to reconnecting with old classmates at my 25th reunion-- which I just signed up to attend. I'm still a senior financial economist at the U.S. SEC, in the Division of Economic and Risk Analysis, Office of Litigation Economics. I've been working lately on a wide variety of cases-- market manipulation and market microstructure, derivatives, accounting fraud, investor fraud, and the like. My wife Juanita Hendriks (BMC '91) and I still live in Bethesda, MD, and our three kids (Carsten (15), Hugo (11), and Aleydis (11)) are at Montgomery County Public Schools, and doing great.

Nathalie Scott (Bonilla) '97 I am now Nathalie Scott, formerly known as Nathalie Bonilla. After getting engaged at the top of the Eiffel Tower in Paris in 2004, we married in 2005. My husband and I are now celebrating our 10 year wedding anniversary on Friday April 24, 2015. We have two beautiful children, a boy and a girl ages 7 and 5, respectively. After Haverford, I went into banking and became an AVP at BB&T. Then I went to FanniMae to do compliance work. A few years later I went to LockHeed Martin to do financial analysis in support of the Federal Aviation Agency (FAA). Now I work for a small company, Human Solutions Inc as a senior financial analyst in Washington, DC and in 2014 I achieved Employee of the Year. Life is great and I thank Haverford for the solid education I received that has helped me be the successful professional that I am today.

Serdar Erden '97 Following graduation I moved to New York City where I've slaved away for consulting companies (Law & Economics Consulting Group, LECG, and then Ernst & Young litigation and restructuring) for about 5 years. Finally, I went to Columbia Business School and returned back to Istanbul, looking for answers to questions such as "do I still fit in", "is there a higher potential to connect the US experience with my roots in Istanbul". After spending a few years trying to get a feeling for Turkish corporate culture and way of doing business (and of course living a single life), I found myself settled with my current position and with my wife. We have 3 year old twins Ali (boy) and Nil (girl). Best moments of my life are when I come home, knock on the door and listen to the footsteps and noises they make while running to the door. I love skiing, friends have a high priority in my life, and whilst turning 40 I've begun a little bit of an abstract inner journey looking for more meaning in what I am doing and a vision for self. Lastly, (how could I forget) I've joined YPO around 3 years ago. My wife and I both really enjoy the experience.

Alumni News!

Rich Billings '00 I recently transitioned roles within the Charter School Growth Fund (<http://www.chartergrowthfund.org/>) from COO to be a Partner on the investment team. I'm incredibly excited about this new role as it will allow me to work closely with educational entrepreneurs around the country and to support the nation's highest-performing charter school operators to dramatically expand their impact on underserved students. Given the number of Fords currently working as teachers and in education reform, I hope to run into more alumni on a regular basis and see the amazing work you and we are doing!

Tim Mulvaney '00 and his wife, Ashley Hedrick '02, are enjoying spending time with their young boys, Finnegan and Jack, be it reading, painting, or shooting hoops at home in Texas or traveling to visit friends and family. Tim recently earned tenure at the Texas A&M University School of Law, where he teaches and writes in the areas of property and environmental law. His most recent publications appear in the Harvard Environmental Law Review, the Florida Law Review Forum, the UC-Berkeley Law Review Circuit, and a new book by Oxford University Press.

Alexandre Baldassano '03 My wife, Julia Baldassano (Schwartz) '02, and I had our first child Zoe Belle Baldassano 9/15/2014. I was promoted to Managing Director at GP Renewables & Trading, LLC where I am responsible for originating renewable power investment opportunities as well as heading up the environmental commodity trading business.

Fritz Krembs '02 I am currently a senior engineer/geologist with Trihydro Corporation in Golden, CO. After finishing up at Haverford I spent a few years in environmental consulting and then got a MS in environmental engineering at Colorado School of Mines. I work on groundwater and soil remediation projects, particularly sites where chlorinated solvents are present. I enjoy working with clients to find efficient ways to meet their environmental management challenges using innovative technologies and natural attenuation approaches. Over the years, I've found my economics degree has been helpful in the project management side of my work, and the data analysis skills I picked up, particularly in Econometrics, have come in handy on many projects. I'm happily married and the proud father of a 4.5-year-old son and 2.5-year-old daughter.

Donald Grunewald '04 The years since graduation have been the times that tried my soul. I developed Crohn's Disease a few months after leaving Haverford. The illness has been painful and debilitating (I had to miss my tenth reunion), culminating in major surgery in late 2014. In addition there were numerous family issues that were equally difficult. In spite of the great challenges, I have recovered to a large extent and am feeling much better. Through all of this, I completed law degrees at Oxford and at U. Penn. I have been teaching Paralegal Studies and Security Management at TCI College in Manhattan, mostly Dispute Resolution and Legal Research and Writing. Teaching has been fun and rewarding. I also continued my passion for fencing, becoming head coach at Greenwich High School in CT. Over the years, I took the program from cellar dwellers to state champions in 2014. I have also coached students to 9 individual state titles. I am happy to speak to any student or alum interested in law, business, coaching, or Intestinal Bowel Disease. My plans are to expand and make good use of better times.

Charles Hill '04 I started a new job as of March 2015: Risk Management Officer, Mitsubishi UFJ Financial Group, in charge of building out their Risk and Control Self-Assessment (RCSA) Program for their US and Latin American Operations. I founded a Financial Literacy Curriculum-based program, Pivotal Lit. (2013) focused on basic financial management, relationship of money, and understanding of money and markets. Curriculum modules are mainly scaled for High Schools and Colleges with additional workshops and presentations for adults and non-finance professionals.

<http://www.pivotalit.com>. I also do speaking engagements to High Schools, Colleges, and Conferences on Career Coaching, Money Coaching, Money Management, Inequality of Economic Development, Networking Skills, Career Planning, and Entrepreneurship. And, I'm currently learning Japanese and Spanish.

Erica Phillips '04 is now covering supply chain and logistics for the Wall Street Journal's new special section on the subject, The Logistics Report. The section launched April 30, and Erica is eager to hear from alums in the supply chain and logistics sectors to talk story ideas. She is based in Los Angeles, and can travel globally to wherever the story is! Reach her at erica.phillips@wsj.com. Erica has been with the Wall Street Journal for three years, and previously covered national news in the West, with a focus on regional economics.

Elisabeth Smith '04 In December I was named President and CEO of Acutec Precision Machining, a 475 person aerospace manufacturing company headquartered in Meadville, PA:

<http://www.goerie.com/taking-charge-smith-takes-helm-at-acutec>

http://www.meadvilletribune.com/news/local_news/elisabeth-smith-takes-over-reins-of-meadville-s-acutec/article_988e29e4-b7f5-11e4-ac5b-0fce96aae513.html

The future is bright for the US aerospace industry--we're hiring!

Spencer Walters '05 I am very pleased to report the birth of my second child, Thomas J. Walters back in June 2014. He is adored by big sister Madeleine and of course his parents. In professional news, in Fall 2014 I left Covington & Burling LLP to join the boutique tax law firm of Ivins, Phillips & Barker as an Associate. I continue to practice all aspects of employee benefits and compensation law here in Washington, DC. I only wish I were drawing on my econometric training more directly but my studies with Linda Bell, Richard Ball, Anne Preston, and others in the department certainly prepared me well for my tax practice.

Steve Zyman '05 I will be graduating Harvard Business School in May and will be moving to LA with my wife Lindsay to start a new job as an analyst with Capital Group.

Alumni News!

Iris Colon '06 In December I began a new role on the Performance Improvement Team at CenterLight Health System. We work to improve business processes across the Health System, which includes Nursing and Rehabilitation Centers, Independent Housing and Hospice Care, and Managed Long Term Care. Most recently, we implemented CenterLight's new Fully Integrated Dual Advantage Plan.

Jon Kelman '06 just accepted a new job with ZS Associates, a consulting firm focused on sales and marketing strategy; he will still be based in Chicago (and traveling far less frequently). He has also been coaching an inner-city lacrosse team for a non-profit organization and recently came back from a vacation to South Africa.

Thomas Quinn '06 Since my last update in 2012, I graduated from law school, moved to New York and worked at Paul, Weiss for a year, got married, then moved home to Chicago for the first time since high school. I'm wrapping up a clerkship in Chicago this fall, but I'm not sure what's next yet.

Anirudh Suri '06 finally managed to convince Gursimran Kaur Mann (BMC'05) to marry him. He had been trying to convince her since International Students Orientation during his freshman year! Gursimran and Anirudh got married at Gursimran's ancestral house in Dharmsala, India. We were lucky to have many friends there with us, including Pritika Hingorani (BMC'05) and Yumi Kamiya (BMC'06). We are now based in Delhi, and if any of you ever find yourselves in our neck of the woods, give us a shout!

Ben Einbinder '07 I got married to Meredith Lippman (Union College '09) in October of last year. I'm currently a corporate associate in the Los Angeles office of Greenberg Traurig, LLP. My practice focuses on Mergers and Acquisitions, Private Equity, Venture Capital and Security. Hope all is well at Haverford.

Jeff Millman '07 Jeff and his wife Jennifer are happily expecting the birth of their second child in August. Jeff is enjoying his first year as vice president in the administrative office for Chase.

Mark Rembert '07 I am currently finishing up my second year of doctoral studies in Agricultural, Environmental, and Development Economics at Ohio State University, with field studies in regional, environmental, and resource economics. I will be starting my dissertation this summer with research focused on topics related to impact of the Great Recession on US regions. This fall I will begin working as the research assistant to Dr. Mark Partridge, the C. William Swank Professor of Rural-Urban Policy, and will be developing analysis for local and state policymakers on issues important to Ohio's rural communities. Along with my PhD work, I have been deeply engaged in economic development work in my hometown of Wilmington, Ohio as the co-founder of Energize Clinton County (<http://www.energizecc.com>) and the Executive Director of the Wilmington-Clinton County Chamber of Commerce (<http://www.wccchamber.com>). One of the great joys of this work was the opportunity I had to work with my HC '07 classmate Parker Hoar on projects related to community design and architecture, and to host two outstanding Haverford Whitehead Fellows, Daniel Gordon '14 and Dawit Habtemariam '15.

Sanjay De '08 I'll be graduating from Columbia University Mailman School of Public Health with an MPH in Health Policy and Management this October.

Andrew Wilcox '08 I am now finishing my first year of business school at the University of Minnesota and will be interning with Accenture in a health care consulting role at their San Francisco offices this summer. That's about it for me right now!

Eric Lundquist '09 After working at Mathematica Policy Research since the fall after my Haverford graduation, I'm going out to be going to grad school this fall. I'll be enrolling in Northwestern's Master of Science in Analytics program at the McCormick School of Engineering. This is a pretty new (4th cohort) program designed to blend traditional statistics, computer science, economics, and machine learning tools in order to train graduates to work as quantitative analysts and/or data scientists after graduation. Dave Owens actually helped me out in this regard by writing (what I can only assume) was a great recommendation, especially since it's been five years since my undergrad graduation. That's all for now - maybe I'll have more to share next year when I've done a few projects via the program and have my summer internship lined up.

Karan Shah '09 I'm graduating from Harvard Business School with an MBA in May. I will be moving to London to work with Amazon in the Retail Leadership Development Program after school.

Sarah Gilarsky'10 I am very excited to be starting at Columbia Business School in the fall where I plan to concentrate in media, technology, and the future of video content. I would love to meet any other Fords who are CBS alum or who will be at Columbia at the same time. I will be leaving my job in television research at Viacom this summer. Looking forward to seeing everyone from the econ department at the reunion!

Chris Maurice '10 I got married on March 28th and I was promoted to trading last August at Invesco Fixed Income.

Charles Carluccio '11 passed both the New York and New Jersey bar exams and is finishing a one-year Judicial Clerkship. He will be starting as an Assistant District Attorney at the New York County District Attorney's Office in September.

Melissa Forrow '11 I will be beginning a social work master's degree this fall at the University of Texas at Austin.

Patrice Harkins '11 I am now working at WME | IMG in their digital department.

William Reilly '11 started a new job. I'm working at Charlesbank Equity Partners, a mid-market private equity firm in NY. I got married in October and two class of 2011 economics majors were groomsmen (Remy Olson & Alec Hubel) as well as 3 other HC 2011 grads (not econ - James Hercher, Joe Howard, and Max Stossel).

Next fall our Economics Alumni Forum will be on the economics of immigration. Please get in touch if you have expertise in the area and would like to participate.

Chris Southwick '11 I'm currently a first year student in the Masters of Science in Transportation program at MIT along with fellow Haverford alum Zach Needell '11. I spent the three years following Haverford serving with different AmeriCorps programs: Habitat for Humanity, FEMA, and the US Forest Service. I'm happily living in Cambridge with three former Haverford cross country teammates and am looking forward to what life will bring.

Giff Brooks '12 I've moved to San Francisco. I continue to work for Cornerstone Research as a Senior Analyst, and I am applying to business school this Fall. Looking forward to the newsletter!

Bryan Henrick '12 was recently promoted from an Investment Analyst to an Associate Investor at the JP Morgan Private Bank in Philadelphia. He is currently a Level III Candidate in the Chartered Financial Analyst (CFA) program and is sitting for the Level III exam this June. Ran the 2015 Broad Street 10 Mile Race for the 2nd consecutive year!

Robert Hubley '12 I'll be graduating from Fordham University School of Law in May 2015. Following graduation, I will be working in New York City at the law firm Linklaters LLP. I will be working in the firm's Investment Management Group. Other than that, not too much to report!

Jay Gorchow '13 I have been working at an advertising agency in New York - Media Storm - for just over a year now, reaching my one year anniversary this past April. Our agency's clients are predominantly television networks such as Fox, ABC Family and NFL Network, though we also feature non-media clients including Forever 21 and Phillips 66. Back in February after a little over 9 months at our New York office, I received a promotion from Associate Analyst to my current role, Senior Analyst of our Insights and Analytics department. Beyond hiring, training and managing our associate analysts, my role also includes mining data sets to effectively position our campaigns, performing ROI analyses to demonstrate organizational value, and generating industry and client-based insights that I strategically package and present to potential clients. The experience has been very rewarding, as working heavily in research has exposed me not only to all of the various departments within our company, but also to many of our current and prospective clients.

Matt Mazewski '13 I've been working as a research analyst at the New York Fed since graduating and will be starting a Ph.D. in economics at Columbia this fall. Last summer I [coauthored a piece](#) on the Fed's *Liberty Street Economics* blog about political polarization and income inequality that was cited by [Vox](#) and [Business Insider](#). Can't wait to read about what everyone else has been up to!

Zac Werrell '13 Since the Brat Race, I have been growing my political consulting endeavors. I became the political director of the Middle Resolution PAC for the Ben Chafin for Virginia Senate special election, where we won a resounding victory. I then was recruited to attempt to rescue Pedro Celis's Congressional Campaign just outside of Seattle, Washington. We brought him from 16% of the vote in the Primary to over 45% in the General against an incumbent Democrat. I am currently managing Vince Haley's Virginia Senate race. Of interest to those of us

Werrell cont'd

interested in Macroeconomic Policy, Vince is running on phasing out Virginia's income tax. Besides the day to day campaign operations, I am building my consulting firm, Sic Semper Consulting, to assist small dollar candidates defeat incumbents or other candidates with monetary advantages. I am also in the process of writing two books, one of which is a how-to on winning grassroots campaigns.

Ethan Pan'14 I am currently with Citi Treasury and Trade Solutions Trade Division Trade Working Capital Finance Team. Outside work, I have been involved in two professional organizations: Open Finance and Ascend Leadership. I am mainly helping with their speaker events.

Josh Studnitzer '14 Hope all is well at Haverford! My only news is that I started a new position this spring with the Chicago Cubs as a minor league video coordinator.

Jan Vanous '14 I'm finishing up my one-year Master's in Finance program at the Robert Day School at Claremont McKenna College. It was a long and intense year, but also one of my most academically rewarding years. I must say that the beaches and the weather in Southern California deserve all the hype. I also have a job set up in New York City that I will be starting in mid-August. I will be working for PA Consulting, a management consulting firm that is headquartered in the UK. Although the firm is headquartered in the UK, it also has offices all over the US. So I will be working at the US headquarters at the Chrysler Building in New York City. At the firm I will be working as an analyst for their Global Utility and Energy Practice. In between all this school work and job work, I also plan to take full advantage of my summer break. In the next few days I'm going on a road trip with a few friends up the Pacific Coast Highway and visiting Yosemite Valley. And then almost immediately after that I will be heading off to Chicago to play in the DIII Ultimate Frisbee National Championship Tournament. I probably should have mentioned earlier that I've used my extra year of eligibility to play for the Claremont Ultimate Frisbee team. Then, for the rest of the summer, I will likely be hanging out with friends and family in the Czech Republic and Spain. I hope all is going well at the econ department! Please say "hi" to everyone for me and congrats on finishing up yet another year!

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Alumni News!



Zoe Belle Baldassano
Alex Baldassano's '03 daughter



Tim Taylor '82



daughter Bethany, Lee Smith '85
and husband Paul



Elisabeth Smith '04 (photo courtesy of GoErie.com)



Junko Hoshizawa, Eric W. Sedlak '80,
Rita Hoshizawa Sedlak, Hana Hoshizawa Sedlak



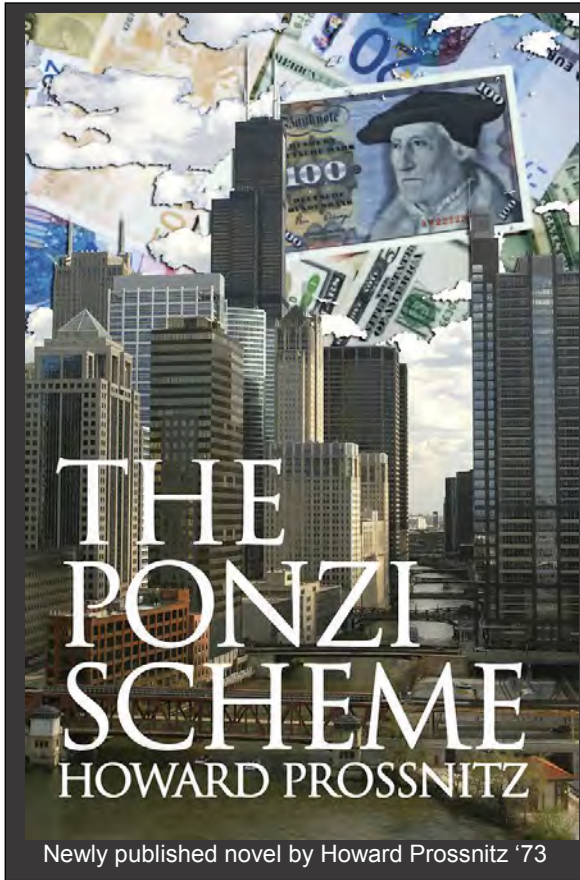
Karan Shah '09



David Shein, Remy Olson '11, Andrew Walker, Matt Reilly, William Reilly '11 (groom), James Hercher '11, Max Stossel '11, Alec Hubel '11, and Joe Howard '11



John Oh '06, Ryan Stephens '07, Ryan Frankel '06, Mike Primiani '06, Steve Zyman '05, Stephanie Pickering (now Stephanie Primiani) '09, Daniel Render '06, Alex DeSorbo BMC '07 (bride), Tom Quinn '06 (groom), Matt Tomich '08, Adam Shapiro '06, Cathy Koshland '72, Jim Koshland '73, Andrew Katz '07, Jeff Graupe '06, Justin Marlowe '07, Travis Zier '07



3rd from left Anirudh Suri '06 (groom) and his bride Gursimran Kaur Mann (BMC '05)
 second from right Pritika Hingorani (BMC '05)



Art Wright '60 (L) and two hiking buddies at Teton National Park



Keith Belton '83, Geanne Perlman Rosenberg '82



Alex Russin '86



Justin Marlowe '07, Lindsey Sullivan '08, Lawrence Minicone '07, Meredith Lippman (bride), Ben Einbinder '07 (groom), Maxine Riccio '07, Nick Riccio '07



Mark Rembert '07 and Parker Hoar '07



Jan Vanous '14 climbing Mt. Baldy (Southern CA)



Asli Irengun Erden, Nil (3 yrs old), Serdar Erden '97 and Ali (3 yrs old)



Daniel Millman (2 1/2 yrs old)
Jeff Millman's '07 son



Chris Maurice '10 and his bride, Pamela Luna Maurice

Class of 2015 Thesis Topics

Robin Banerji As the rate of investment in community-driven development (CDD) increases (totaling \$85 billion as of 2013 from the World Bank alone), it is increasingly important to understand the causes of its successes and failures. This project examines the role of mobilizers: specifically, how does a mobilizer encourage active buy-in from potential beneficiaries? Using cross-sectional survey data from Jeevika, a women's empowerment, anti-poverty, and rural livelihoods intervention in Bihar, India, I find that CRPs (Community Resource Persons), poor, female leaders in Jeevika, are the most effective in encouraging participation among potential beneficiaries, due to their high levels of social capital. I additionally find that sharing abstract positive messages such as "Jeevika will help you get out of poverty" and "Jeevika will bring you together as one" crowds out intrinsic motivation stemming from social capital and reduces participation.

Thomas Bergjans This study examines the presence of a sunk cost effect in Major League Baseball from 1994 - 2014 in order to see whether sunk costs motivate both front office and on field decision making. This paper implements two separate models as means of investigating the existence of a sunk cost effect. The first model follows after a previous study done on the sunk cost effect and its impact in the NBA, and its aim is to investigate how draft order and salary influence playing time. The second model examines the impact of draft order and previous contract size on future contract value when controlling for past performance. The results of the playing time model suggest that both initial draft position and annual salary have significant effects on playing time, with both draft position and annual salary being significant predictors. While the performance and salary models suggest that initial draft position is not a significant determinant of future salary, the results do indicate that previous contract size has a highly significant effect on future contract value when controlling for performance. Overall, these models suggest and provide evidence indicating that a sunk cost effect may be present as former investments do seem to impact the judgment and decision making of Major League teams.

Sarah Brody My thesis analyzes charitable giving and breakable donation chains. Breakable chains occur when a chain of participants can be effectively "broken" (or discontinued) by a single person's decision not to participate. My thesis is an experiment inspired by the ALS Ice Bucket Challenge, to test how breakability affects both propensity to donate and amount donated.

Atreya Dey analyzes the long run performance of mergers that are in the 90th percentile of all U.S. mergers announced between 2001 and 2013. Mergers historically have been found to create negative abnormal returns for acquiring firms. Furthermore, there exists evidence from previous literature that there are short term negative abnormal returns for very large merger transactions. I use monthly returns of acquiring companies to calculate excess returns from the risk free interest rate as well as to obtain a predicted value for each asset. I use the Fama-French 5 factor pricing model to control for various company variables that could impact the firm's abnormal returns. My results show that on average, mega mergers have significantly negative cumulative abnormal returns.

Jennifer DiMaria Using data sourced from The World Bank, The United Nations, and The Global Entrepreneurship Monitor, my thesis examines the effect of migration flow on new business development and entrepreneurial activity in developed countries. My thesis is the first paper to address the cross-country effects of migration on entrepreneurship using reputable, publically accessible data sets. The main findings of my thesis are that both immigration from and emigration to developed countries has a small, yet significant negative impact on the amount of early-stage entrepreneurial activity a country experiences. Regional specifications have ultimately proven inconclusive, though some findings support the hypotheses put forth in this study that immigration into a developed country leads to higher entrepreneurial activity.

Casey Fox The paper examines the impact of lagged performance on free agent contracts for players in the National Basketball Association. The main approach of the paper is twofold. The first piece investigates how past performance affects future performance in the two seasons after contract year and compares it to the impact previous performance has on contract terms for free agent players. The second piece investigates the rationality of free agent contracts in their entirety by comparing the impact of lagged performance on total accumulated production and total dollar value paid. The goal is to determine if performance prior to contract year is underweighted in contract decision-making relative to its predictive power of future performance. There is evidence that performance in years prior to contract year is overlooked in contract determination decisions by NBA general managers, and there is mild evidence that performance data two years prior to contract year are underweighted given their predictive power of future performance.

Class of 2015 Thesis Topics

David Galaz In this thesis I investigate the correlation between leasing and the sales period for mid-sized car models in the United States. The lease to total sales ratio may be one indicator associated with varying lengths of the introduction and maturity phase of a product's life cycle. Using survival analysis, I determine the effects of time-varying covariates on the hazard or exit rate for a sample of car models. By attempting to isolate the effect of leasing from sales, I examine the determinants of length of sales periods for mid-sized cars in the United States, using data provided by WardsAuto, for the period 1980-2015.

Geoffrey Geppert The goal of this dissertation is to answer the following question: is it possible to predict the future real pound-dollar exchange rate fluctuations using empirical models based on the uncovered interest rate parity theorem? This article expands upon past empirical studies that test pound-dollar forecasting models based on the uncovered interest rate parity theorem by utilizing a different interest rate differential than past studies have used in empirical regressions. In this empirical study the UIP theorem is tested using daily data from January 3, 1986 to October 31, 2014 for the Pound-sterling U.S. dollar currency pair. The uncovered interest rate parity theorem is a parity condition stating that the differential between the real domestic interest rate and the real foreign interest rate should equal the rate of depreciation or appreciation of the domestic foreign exchange rate. The empirical regressions produce negative slope coefficients and thus support the depreciating relationship of higher interest rate country's currency relative to the lower interest rate country's currency.

Maxwell Gerard My thesis examines yearly salaries given to free agents in Major League Baseball from 2006-2014 with each player's performance (using Wins Above Replacement) over that contract period. I examine the effects of a player's performance over the three years prior to contract on his average annual value. I then examine the effects of a player's average annual value (set at the time of contract signing) on his performance over the course of the contract (again, using Wins Above Replacement). Anecdotal evidence suggests that teams do not put enough emphasis on the three years prior to contract signing when determining salary and that psychological biases may cause teams to overpay better players. I grouped contracts by size, length, and percent of team payroll in order to determine if these biases were present. This paper finds that previous performance is not as good a predictor of average yearly salary for large (long, or high percentage) contracts, implying that biases such as optimism bias, the false consensus effect, and the winner's curse may be influencing the decision-making processes of General Managers. Additionally, this paper finds that contract value has a positive effect on player performance; increasing a player's average contract value tends to increase his performance.

Nicholas Giannasca This paper considers the digital piracy of recorded music, specifically just how much, if at all, music piracy affects the growth and revenue of the music industry. The continuous decrease in music revenue since 1999 has led record label executives and artists to fervently speak out about the unauthorized copying and distribution of copyrighted music. I differentiate between two types of anti-piracy legislation and assume that the legislation successfully decreased digital piracy. Generic anti-piracy legislation seems to lead to an increase in digital revenue. Legislation that requires Internet service providers to monitor and report access of unauthorized content seems to lead to a decrease in digital revenue. These results support statistically significant evidence for both a significant sampling effect, whereby pirated content complements legal content, as well as a substitution effect, whereby pirated content substitutes for legal content.

Brianna Groh Defining statutes for capital punishment crimes vary by state. Within states the distribution of capital sentences and number of executions vary greatly by county. Academics believe capital punishment to be arbitrary in nature. Previous literature has looked at the internal nature of individual sentences such as race of victim, race of convict, and severity of the homicide. Rather than looking at the characterizations of homicides that result in a capital sentence, examining the demographics and communities of the sentencing counties could explain the variation of sentences within a state. Specifically, counties with high exposure to institutionally mandated killing could be more inclined to issue capital punishment sentences than counties with a low tolerance for institutional violence. This research will use veteran populations as a proxy variable for a county's desensitization level. Findings include significant predictive power of Vietnam and Gulf War veteran populations, and in some cases significant predictive power of overall veteran population. The magnitude and sign of Veteran coefficients indicate that different groups influence community judicial systems in opposing manners.

Kenneth Gudel A firm in a competitive environment, that is able to cheat consumers, wishes to maximize profits. This firm has a current incentive to cheat consumers to make additional revenue. But if the firm builds a reputation for cheating it will not be able to charge as high a price for its product and consumers may avoid it. If firm reputations are sufficiently high there will be an equilibrium where the top firms hold a monopoly over the market and will never be forced to drop out. However, for lower firm reputations, firms are willing to produce in such a way that lower reputation firms may be able to join the cadre of top firms.

Class of 2015 Thesis Topics

Dawit Habertemariam My thesis examines the impact of southern institutions from the Jim Crow era on the racial wealth gap today. From 1877 to 1965 institutions in the south were of poor quality because they did not enforce property rights for all economic agents, particularly black economic agents. Because of the institutions blacks could not generate wealth to pass down to their children for almost a century. I suspect that the effects of these institutions persist to this day in the form of racial wealth gap. I construct an econometric model with fixed effects at the county level in 11 southern states. I regress the racial unemployment rate gap, income gap, and home ownership gap on institutional quality, using the number of lynchings per county as a proxy. I obtain mixed results.

Douglas (Jake) Kaminer My thesis analyzes the effects of global airline alliances on total airline industry output. In all, I claim that overall output rises with the introduction of new members to an alliance. Furthermore, through an analysis of origin-destination pairs between the United States and Europe, it is clear that global alliances cause airlines to reduce the number of non-stop destinations they offer. Combining these factors, it is evident that global airline alliances have a more complementary than parallel route network, leading to more frequent flights for passengers, but limited non-stop flight choices.

Marc Korobkin The Appalachia region of the United States contains abundant coal reserves as well as high levels of poverty. Appalachia accounts for nearly one-third of American coal production, yet the region remains deeply impoverished. This study looks at county-level data in a sample of 335 Appalachian counties from 1983-2013. Two hypotheses are tested, first whether a "Resource Curse" is occurring in Appalachia and second whether net migration is the main transmission channel through which the resource curse operates. This study estimates two equations, an empirical growth model and an equation describing net migration in terms of coal production, and then estimates these two equations simultaneously. The results indicate that a "Resource Curse" is present in Appalachia, reducing growth by 0.5 percentage points annually. Second, this study finds that coal production reduces net migration by 0.35 percentage points annually, indirectly contributing to lower growth of 0.13 percentage points per year. This study concludes that net migration accounts for roughly one quarter of the resource curse.

Sloan Millman My thesis utilizes a panel data set of neighborhood crime in Atlanta, Georgia, in order to determine the impact that rail transit has on crime. The results from using a random-effects estimator indicate that neighborhoods in close proximity to rail stations in Atlanta have higher crime rates than neighborhoods that are further away from them. This is also the case in areas close to rail stations where housing values are higher, as compared to areas with high housing prices that are further away from a station and areas close to stations that have lower housing prices. Furthermore, I find that areas close to stations that have high poverty rates tend to have less crime.

Ivy Muir As telecommunications networks have expanded access to mobile phone services in developing regions of the world, services such as mobile banking have taken root at an impressive pace. This analysis builds on previous research into the household level effects of the widely popular M-PESA services in Kenya to see if financial transaction patterns can be replicated in other country data. Individual-level data was analyzed for Bangladesh, India, Kenya, Nigeria, Pakistan, Tanzania, and Uganda. Finding suggest that m-money encouraged bank account usage in the country samples where m-money was less prevalent overall, and discouraged bank account usage in the country samples where it was more prevalent. Overall, this study finds considerable difference in the effects of mobile money by country, as well as discrepant effects when interacted with bank account ownership.

Joshua Nadel My thesis presents a model for a market of coordinated goods. Using firearm ownership as an example, the model assumes that there are some goods for which an individual's utility is partially dependent on the decisions of the community as a whole; a heavily armed community incentivizes an agent to arm. The model details certain characteristics of markets such as the homogeneity of individuals in the market, the importance of coordination in the culture, and the opportunity cost of arming and establishes an ownership rate for the particular market at equilibrium. Certain types of markets are able to sustain multiple stable ownership equilibria and provide an intuition for real world markets that seem similar settling on wildly different firearm ownership rates. Finally the model examines the effects of policy shifts on markets with multiple ownership equilibria and finds that a small policy change can lead to a dramatic change in ownership rate within the market.

Class of 2015 Thesis Topics

Giang Hoang (Eric) Nguyen A bicycle sharing system is a service in which people can rent a bike to travel, usually from one bike station to another and over a short period of time. Bicycle sharing systems are now available in over 700 cities in the world after seeing a tremendous growth in the last decade. They are an integral part of many cities' public transportation system. Most bicycle sharing systems currently employ a fixed pricing scheme. However, with all the recent advancements in mobile technology, it has become increasingly easier for consumers to be informed, which opens up the possibility of having a dynamic pricing scheme in which the price changes according to the station and the time of the day. In this paper, I will create a simple dynamic pricing model. As the cost of operating a bicycle sharing system is largely fixed, I will assume that the entire purpose of the operator of the bicycle sharing system is to maximize revenues from trips. I will then solve for the conditions that will maximize the revenues given a certain set of parameters.

Brianna Robbins My thesis investigates if active managers have access to information that enables an active ETF to generate returns higher than a passive ETF. If the strong form of the efficient market hypothesis is true, financial managers do not have access to information that allows them to generate higher returns than a market portfolio. This paper aims to determine if the higher fees associated with the management of active ETFs are justified by higher overall returns or if the strong form of the efficient market hypothesis holds within the ETF universe. The analysis finds no strong evidence that active managers are able to generate higher returns thus providing evidence in support of the strong form of the efficient market hypothesis. The only evidence to endorse investor choice of active management is found using propensity score matching as the results suggest that active managers may add value to an ETF in a time period when the market generated a loss.

Jill Schnall This thesis analyzes the cross-price effects of alcohol and cigarettes on different subpopulations. Specifically, I use a linear probability model to look at the change in the probability that a person drinks, smokes, drinks excessively and drinks moderately in response to a change in the price of beer, wine, and cigarettes. I also use OLS regression to look at the change in the average number of drinks per drinking occasion and the average number of drinks per month in response to a change in the price of beer, wine, and cigarettes. Results suggest that beer is a complement to cigarettes, whereas cigarettes are a substitute for alcohol. Additionally, I find that wine is a substitute for cigarettes.

Jing Shen People move for various reasons, some in search of a better educational environment or better educational opportunities. For instance, each year, a large population of college freshmen moves across state boundaries in pursuit of higher education. This persistent inflow of migrants in turn propels population growth, increasing tax revenue and with it educational spending. Employing data from the U.S. Census, the National Center for Education Statistics, and a number of other sources, this paper addresses the question of how education and migration interact with one other by using simultaneous equation regression. Results show that educational spending and migration do have a direct relationship if we use the dollar amount of state educational spending.

Raphael Small In this thesis I present a theoretical, neoclassical growth model with a rigorous microeconomic foundation that examines the bidirectional dynamic link between inequality and economic growth. I take a standard Real Business Cycle model and augment the production function to incorporate human capital in accordance with the Mankiw, Romer, and Weil (1992) extension to the standard Solow Growth Model. My thesis contributes to the scope and detail of the existing literature, adding a spectrum of heterogeneous households differentiated in size, asset holdings, and stock of human capital. I utilize a Markov Transition Matrix to capture the stochastic and persistent nature of the business cycle and extend investment in human capital at the microeconomic level. I introduce two frictions to propagate inequality shocks from the microeconomic to the macroeconomic level: imperfect capital markets and discrete human capital. Results indicate that the relationship between inequality and growth is complex, but that stable growth occasionally decreases the income Gini Coefficient. The introduced frictions and nature of the model combine to generate patterns of investment shocks and capital depreciation that prevent the economy from reaching the steady-state achieved by the social planner or competitive markets, indicating that reducing the severity of frictions leads to economic stability and a Pareto Efficient improvement for the economy in the long-run.

Lauren Touey My thesis explores the gateway hypothesis in context of the changing legal statuses of medical marijuana in the United States. I am most interested in the relationship between marijuana and hard drug use and if a greater availability of medical marijuana causes an increase in subsequent drug use. I use the Uniform Crime Reports as my data source, which tracks Part I and II criminal offenses. Using hard drug and marijuana sale and possession arrests, the gateway hypothesis is not prevalent in regressions concerning hard drugs and not significant in ones concerning marijuana arrests suggesting that worries about increasing hard drug use in medical marijuana states may be overblown.

Class of 2015 Thesis Topics

Alejandro Vega My thesis, "The Impact of Heterogeneity of Team Performance", investigates the correlation between salary and expertise variance on team performance in the NFL and MLB. I was very interested to see to what degree having a well-paid "superstar" had on team performance. In addition, I wanted to investigate whether the salary cap in the NFL played a role in the impact of heterogeneity on team performance by comparing the correlation in the MLB as well. My results indicated that there is a significant positive correlation between salary variance (ONLY as offensive NFL players) and team performance. For defensive NFL players and MLB teams, there is no correlation.

Hao Wang My thesis investigates into performance peer effects of star performers on their average co-workers using regular-season performance data from National Basketball Association (NBA). Fixed effects and logit regressions are utilized to identify these effects. Peer effects on accuracy performance, efficiency performance and points-per-shot are separately identified. The empirical results consistently show that playing with superstar teammates on court significantly increases average players' accuracy performance but significantly decreases their efficiency performance. This study has broader industry implication in helping design an optimal talent allocation in a working group.

Caleb Wroblewski The past decade has seen a remarkable increase in foreign trade and investment, as multinational firms look to serve international markets and governments seek to attract foreign investment. In this thesis, I analyze the effect of a Regional Trade Agreement (RTA), and trade costs more broadly, on the amount and distribution of foreign direct investment (FDI) among potential recipient countries. I first examine how asymmetries between countries competing for FDI inflows may affect the location of FDI, and then investigate how an RTA may affect these competitive pressures and the overall distribution of FDI. I also introduce a broader model of FDI location, which integrates imported, intermediate goods into the production process. This feature complicates the notion of tariff-jumping, by showing how higher trade costs may reduce FDI inflows by increasing the price of intermediate inputs. I then test some of the implications of my work empirically using a cross-country panel dataset. I find that, in general, lower trade costs are associated with higher levels of incoming FDI, but that within the context of an RTA, the traditional tariff-jumping effect becomes more prominent as a result of lowered trade costs.

Thomas Yi The unresolved debate of whether democracy promotes economic growth continues among political scientists and economists. This thesis focuses on the specific forms of executive government in democratically elected systems, to examine their relationship with economic growth. The empirical analysis in the paper examines three varying forms of democratic government – parliamentarism, semi-presidentialism, and presidentialism – to test their impact on economic growth in Asia during the period 1960 to 2001. Using three regression strategies (OLS panel-corrected standard error, country fixed effects, and two-stage least squares country fixed effects), the results indicate that varying forms of democratic government do not seem to have a significant effect on economic growth, measured by real GDP per capita, in the Asian economies examined over this period. These findings are in keeping with mixed results reported in the literature, on the interplay of political systems and various factors contributing to economic growth.

Student theses are electronically archived in Haverford College's online library. The following link, http://www.haverford.edu/library/thesis_archive/index.php, will direct you.

Faculty Updates

Richard Ball is looking forward to being on sabbatical for the 2015-16 academic year. This summer he will be wrapping up a research paper he has been collaborating on with Bish Banerjee and working with a student research assistant, Bingxi Lin, on a theoretical project about social norms and economic development. He also plans to spend some time developing new curriculum for his statistics and game theory classes. Work on Project TIER, the initiative Richard has developed with Norm Medeiros to promote training in methods of transparent and reproducible research across the social sciences, will also be a focus of Richard's sabbatical. You can read the latest news about Project TIER at www.haverford.edu/TIER, and you can follow us on Twitter (@Project_TIER).

Saleha Jilani teaches introductory economics, upper level courses on economic development and trade theory, (entitled Economic Development and Transformation: China vs. India, and International Trade: Theory and Policy, respectively), a junior research seminar on international trade, and advises seniors in the thesis-writing Senior Research Seminar. Saleha's research interests include international trade, regional economic integration, and economic growth and development. Saleha is currently working on projects examining both the impact of incoming foreign direct investment (FDI), disaggregated by industry (sector), on economic growth, as well as the effects of regional integration in attracting FDI inflows to member countries. Other research projects include collaboration with Alec Koffler '13 examining the effect of access to healthcare on educational outcomes in Kenya.

Vladimir Kontorovich teaches Law and Economics; The Soviet System and Its Demise; Introduction to Economics; and Intermediate Microeconomic Analysis. His article "A Cold War Creature Which Sat Out the War" was published in *Europe-Asia Studies* last year, and another one, "The Military Origins of Soviet Industrialization", is forthcoming in *Comparative Economic Studies*. He will be presenting a paper on "AFCS vs SBC" at the I World Congress of Comparative Economics in June.

Tim Lambie-Hanson had a great time working with students in all of his courses this year. He also welcomed a daughter, Eleanor, into the world during the Spring semester. So while he has high hopes for a productive summer - working on projects studying the home appraisal process and imprecise communication - he will also be in charge of child care for significant periods of time. From past experience, he recognizes that maintaining productivity during this time period will be a significant challenge.

Shannon Mudd continued to teach courses in microfinance and impact investing and engage students in various co-curricular activities as Director of MI3, the Microfinance and Impact Investing Initiative. He taught Advanced Corporate Finance which will now be offered semi-annually due to the new relationship with Claremont McKenna's Masters of Finance program. And, jointly with CPGC and Swarthmore's Lang Center delivered a six evening seminar on Social Entrepreneurship that finished with an evening with Ashoka Fellow and Haverford Alum, David Castro '83, founder of ILead. Professor Mudd also arranged for alumnus Greg Reed '06 of the Institute for Justice to speak to the microfinance class where he gave a passionate talk about the sometimes oppressive regulatory environment for small and micro business in the US. Class speakers also included guests from Fonkoze, a Haitian microfinance organization and this year's Friends in Residence, Jens and Spee Braun, who were involved in early microfinance efforts in Gaza and in Costa Rica.

Faculty Updates

David Owens joined the Haverford Economics Department at the beginning of the 2008-2009 academic year, after receiving his Ph.D. in Economics from the University of California at Berkeley. David teaches Principles of Economics, Behavioral Economics and a junior research seminar titled "Psychological Biases and Economic Decisions". In his research, David uses controlled laboratory experiments to study preferences and decision-making under uncertainty, with applications to learning, belief formation and social preferences. His article with Zachary Grossman and Ryan Fackler (HC '11), *The Control Premium: a Preference for Payoff Autonomy*, appeared in the November, 2014 issue of *The American Economic Journal: Microeconomics*. His article *Lotteries in Dictator Games: an Experimental Study* is forthcoming in *The Eastern Economic Journal*. He also has a manuscript under review at *The Journal of Behavioral and Experimental Economics*.

Giri Parameswaran has enjoyed another wonderful year at Haverford. He presented a paper entitled: *'Reputation, Compliance and Judicial Decision Making'* at the Legal Economic Theory Conference, at UC Berkeley. The paper explored the reputational consequences that courts face when deciding controversial matters, and the associated incentives for judicial actors to decide cases strategically. The paper showed how these incentives help explain the different types of decisions that are rendered by courts of various political persuasions in different contexts. Giri has also been working with Prof. Lambie-Hanson on developing a theory to explain different levels of precision in communication. At Haverford, Giri continued to teach courses in the Economics of Uncertainty, Political Economy and the thesis-writing Senior Research Seminar, and developed a new course in Mathematical Economics. He continued to organize the Haverford Economics Colloquium, a bi-weekly seminar at which faculty from within the department and from other institutions present their recent work. The colloquium has been a valuable resource for both faculty and students to routinely share and engage with ideas.

Anne Preston continues to chair the department, teach, and push her research projects through the pipeline. With a relatively aged project on how differing social preferences of men and women help to explain male-female differences in other laboratory behaviors finally being accepted for publication, she is currently doing a lot of revising and resubmitting while dreaming of a new big project on the horizon for her sabbatical year. Her sabbatical year will be delayed a year while she finishes her three year position as Academic Director of the Center for Peace and Global Citizenship which began last summer. The position has been a welcome excursion into the world of civic engagement and social justice. Besides ensuring the academic relevance of the CPGC sponsored activities, Anne helped organize, with funding and support by CPGC, CCPA, and KINSC, the first annual Public Policy Forum. It was a great daylong event where students presented posters on their policy research, alumni came back as panelists to talk about their own policy work, and David Wessel '76 (economics major) gave career advice as the keynote speaker. Anne is hoping that her experiences at the CPGC may spark an idea for a whole new line of research.

Steven Smith joined Haverford in the Fall and has enjoyed developing an Economic/Environmental curriculum. In addition to co-teaching the Intro to Environmental Studies, he developed an Environmental Economics course--looking at the issues of pollution and other externalities--as well as a Natural Resource course that considers the extraction of and use of fossil fuels, water, timber, and fish through formal analysis. His research has continued to progress, publishing an article exploring groundwater use for irrigation in the *Society and Natural Resource* journal. He continues to work on other projects related to water use in the West and Peru in addition to research on reducing deforestation in order to mitigate carbon emissions. In addition, he and his wife welcomed their first son, Kepler, in August.

Microfinance and Impact Investing Initiative (MI3)

Impact Investing Speaker Series In a collaborative effort with the Econ Department, CCPA and MI3, Professor Mudd organized a series of guest speakers on Impact Investing. The series brought some interesting, challenging and somewhat unusual speakers, a mix of social entrepreneurs in the for-profit and non-profit spaces. The first talk focused on how private capital was helping to maintain fishing communities regulated by tradeable fisheries quotas. Paul Parker, Director of Cape Cod Fisheries Trust (CCFT) discussed threat of large commercial fishing corporations buying up quotas and how CCFT worked with a number of different finance organizations to provide innovative financing to their members to enable them to compete. Nick Muto, perhaps the first commercial fisherman to speak to students at Haverford, added a personal touch to a very informative talk. Next up was Robert Workman of GoalZero, a portable power company that designs products that are appealing to outdoors enthusiasts in developed markets and fulfill a need for off-grid power among developing market consumers. As GoalZero had just been sold, the talk included an interesting discussion of two contrasting exits. Workman concluded from his own experience that the long-term success of the firm post-exit depends on finding a buyer who has similar values and is willing to sustain the mission aspect of the company. The third speaker of the fall semester was Michael Smith, COO of Independence LED, a local LED manufacturing and lighting service provider. The talk included a discussion of the importance of lighting to the energy sector, to promise and outlook for LED lighting and the challenges of being an entrepreneur in the US. First up in the Spring semester was Sameer Mithal, CEO of WaterHealth International, a for-profit, mission focused firm which provides village level water purification plants to communities in developing countries. Already servicing 5 million people, he discussed their plans to continue to scale the company. He also discussed the challenges of working with investors and board members who have very different objectives, from venture capitalists, to impact investors to strategic investors who operate in the same industry. The series ended with one of Haverford's own, Dr. Andrew Quarles '89, who spoke about the current situation in energy and hydraulic fracking. Students in Haverfordians for a Sustainable Future provided a response to his talk giving attendees a real diversity of views. On behalf of the students and my colleagues, I would like to express my appreciation to two alumni, Eddie Stern '87 and Steve Begleiter '84, who supported the series and to friends from wealth management firm AlphaArchitect who helped us find the great lineup.

MI3 and Impact Investing The Impact Investing class ended its fall semester by conducting due diligence on two early stage impact firms that had presented to Investors Circle, the impact investing angel network in which MI3 is a member. After presenting to the Investment Advisory Council which included alumnus Steve Begleiter '84, the students and council together dined and deliberated, eventually reaching a hard won consensus to recommend investment into both firms by ORFL, the foundation that supports MI3. The first investment, Rezzcard, closed in May. Rezzcard provides a convenient electronic payment mechanism for rent for unbanked and underbanked residents of subsidized housing. These clients often pay very high fees for check cashing services as well as uncertainty about when payments are received. Access to finance and appropriate financial products continues to be a difficult problem for the lower income segment of the population and this product helps them take advantage of their increasing use of pre-paid payment cards as well as smart phone technology. Early stage private equity investments like this are high risk and returns are not expected to be realized for 5-8 years. In the meantime, there is still work to do! The two firms in which we had earlier invested, Luxtech, an LED Module Design and Manufacturing Firm, and Wash Cycle Laundry, a delivery bicycle laundry service that uses bicycles and employ hard to hire workers, both continued to expand, increasing both their impact and putting themselves on track to become profitable and generate a financial return. The year the Student Impact Investing Board (SIIB) was formed to perform the ongoing work of our relationship with Investors Circle, to prepare due diligence reports for potential investments "out of season" (i.e., not in the impact investing course) as well as report to ORFL on the performance of the existing portfolio.

MI3 and Haverford Microfinance Consulting Professor Mudd continued to work with Haverford Microfinance Consulting (HMFC) a student group first founded in 2008 (haverfordmfc.org/wp/). Shifting their focus away from developing countries to the issues of access to finance here in our own region, the group has now become engaged with Kiva Zip, an on-line crowdfunding site for small and micro business here in the U.S. (zip.kiva.org). During the year, HMFC successfully applied to become a Kiva Zip Trustee allowing them to endorse potential borrowers who seek to raise zero interest loans on the Kiva Zip platform. They have since put a lot of effort into finding good prospective borrowers, working with existing organizations in West Philly and in Chinatown. While still searching for their own client, HMFC provided assistance to the client of another trustee, Geneva of Boothtastic. Advising her both on her Kiva Zip profile and on general marketing and strategy goals, HMFC helped Geneva successfully reach her funding goal of \$5,000. She is now busy with setting up her photo-booth at various events in a quickly filling schedule and has already made her first repayment. And, finally, here in the last few weeks, HMFC has found their first borrower, Aisha of Miss Mahogany, a jewelry and furnishing boutique located on 60th Street in West Philly. This is the once thriving commercial corridor that suffered when SEPTA shut down its 60th Street station for several years for renovation. Having recently reopened, Aisha is set to become part of the revitalization of the area. She is currently in the private funding phase where she invites those in her own network to back her with funding. As long as she is able to find 20 people who are willing to fund her, i.e., show that she has significant social capital among her own network, she can post publicly to get a zero interest loan through Kiva Zip's platform. So keep your eyes open for announcements (www.haverford.edu/mi3) in case you want to join in the effort to put Aisha on a path to success.

Congratulations class of 2015!



From left back row: Prof. Giri Parameswaran, Prof. David Owens, Prof. Tim Lambie-Hanson (holding daughter Eleanor) and his wife Lauren Lambie-Hanson (holding son Owen), Prof. Steven Smith (holding son Kepler), Sloan Millman, Prof. Richard Ball (holding Yoda)
From left middle row: Caleb Wroblewski, Joshua Nadel, Prof. Vlad Kontorovich, Casey Fox, Tommy Bergjans, Prof. Shannon Mudd, Robin Banerji, Jen DiMaria, Brianna Robbins, Jake Kaminer, Dawit Habtemariam, Thomas Yi, Rafi Small, Hao Wang, David Galaz
From left front row: Kenneth Gudel, Brianna Groh, Marc Korobkin, Max Gerard, Sarah Brody, Jill Schnall, Lauren Touey, Prof. and Chair Anne Preston, Ivy Muir, Prof. Saleha jilani, Administrative Assistant Kim Minor
Missing from photo ~ Atreya Dey, Geoff Geppert, Nick Giannasca , Eric Nguyen, Jing Shen, Alejandro Vega

2015 Holland Hunter '43 Thesis Prize Winners



Joshua Nadel, Anne Preston and Caleb Wroblewski

2014-2015 Events and Celebrations!



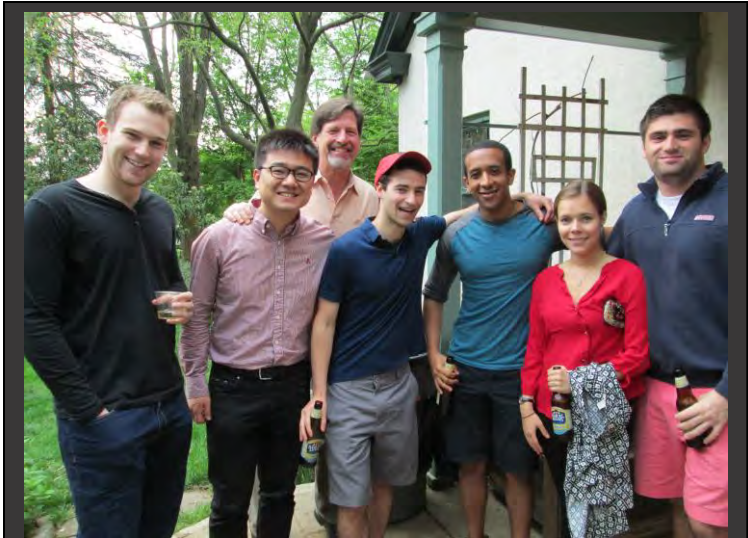
Alvin Roth, Comanor guest speaker (March 23, 2015)



Brianna Robbins, Lauren Touey, Anne Preston (Chair), Jill Schnall and Sarah Brody



Jake Kaminer, Sloan Millman, Caleb Wroblewski, David Galaz and Josh Nadel



Josh Nadel, Hao Wang, Prof. Shannon Mudd, Raphael Small, Dawit Habtemariam, Ivy Muir, Jake Kaminer



2014-2015 Events and Celebrations!



Professors Neal Grabell '77 and Anne Preston (Chair)



Ivy Muir, Prof. Neal Grabell '77, Prof. and Chair Anne Preston, Prof. Shannon Mudd



Prof. Giri Parameswaran, Robin Banerji, and Prof. Shannon Mudd



Kenneth Gudel and Prof. Giri Parameswaran



Casey Fox, Sloan Millman, David Galaz, Prof. Giri Parameswaran, Tom Yi, Hao Wang



Ivy Muir, Prof. Saleha Jilani, Jake Kaminer

2014-2015 Events and Celebrations!



Prof. Shannon Mudd, Sarah Brody, Jill Schnall, Prof. David Owens



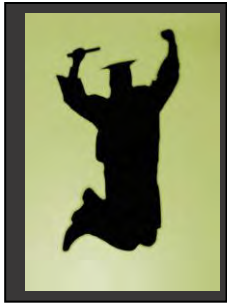
Brianna Groh, Prof. Lambie-Hanson and Prof. Parameswaran



Prof. Steven Smith with wife Laura and son Kepler



Professors Vladimir Kontorovich and Shannon Mudd



Casey Fox, Max Gerard and Tommy Bergjans

Graduation Day! Sunday, May 17, 2015!



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